

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

**Livestock Gross Margin (LGM)
(Insurance Plan Code 82)
(Cattle and Swine)**

GROSS MARGIN GUARANTEE

$$\begin{aligned}
 \text{EXPECTED GROSS MARGIN} = & \text{(Internal)} \quad \text{(field 7)} \quad \text{(field 37)} + \\
 & \text{(field 8)} \quad \text{(field 38)} \quad \text{(field 9)} + \\
 & \text{(field 39)} \quad \text{(field 10)} \quad \text{(field 40)} + \\
 & \text{(field 11)} \quad \text{(field 41)} \quad \text{(field 12)} + \\
 & \text{(field 42)} \quad \text{(field 13)} \quad \text{(field 43)} + \\
 & \text{(field 14)} \quad \text{(field 44)} \quad \text{(field 15)} + \\
 & \text{(field 45)} \quad \text{(field 16)} \quad \text{(field 46)} \\
 \\
 \text{GROSS_MARGIN_GUAR} = & \text{EXPECTED GROSS MARGIN} - \text{(Internal)} \quad \text{(field 47)} * \\
 & \text{(field 48)} \\
 \\
 & \text{TOTAL TARGET MARKETINGS)} \\
 & \text{(Internal)}
 \end{aligned}$$

Note: Gross margin guarantee can be negative.

LIABILITY

FOR CATTLE:

$$\text{LIABILITY} = \text{AVG CME PRICE} * 12.5 * \text{TOTAL TARGET MARKETINGS}$$

(field 49) (Internal) (Internal)

FOR SWINE:

$$\text{LIABILITY} = \text{AVG CME PRICE} * .74 * 2.5 * \text{TOTAL TARGET MARKETINGS}$$

(field 49) (Internal) (Internal)

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

SIMULATED LOSSES

SIMULATED GROSS MARGINS(i) =
(Internal)

(SECOND MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_2) +
(Internal) (field 7)

(THIRD MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_3) +
(Internal) (field 8)

(FOURTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_4) +
(Internal) (field 9)

(FIFTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_5) +
(Internal) (field 10)

(SIXTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_6) +
(Internal) (field 11)

(SEVENTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_7) +
(Internal) (field 12)

(EIGHTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_8) +
(Internal) (field 13)

(NINTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_9) +
(Internal) (field 14)

(TENTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_10) +
(Internal) (field 15)

(ELEVENTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_11)
(Internal) (field 16)

Note: (i) = 1,2,..., 5000

SIMULATED_LOSSES = \sum (MAX (GROSS_MARGIN_GUAR - SIMULATED GROSS MARGINS(i), 0))
(field 50) (field 48) (Internal)

Note: Negative simulated gross margins will be included.

TOTAL PREMIUM

TOTAL_PREMIUM = 1.03 * (1/5,000) * SIMULATED_LOSSES
(field 51) (field 50)

PRODUCER PREMIUM

PRODUCER_PREMIUM = TOTAL_PREMIUM
(field 57) (field 51)

Note: Subsidy not applicable for LGM.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
<TARGET_MARKET_2>	7	9(05)	whole number	Number of swine or cattle the insured expects to market in the second month of the insurance period.
<EXP_GROSS_MARGIN_2>	37	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per swine or cattle for Second Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_3>	8	9(05)	whole number	Number of swine or cattle the insured expects to market in the third month of the insurance period.
<EXP_GROSS_MARGIN_3>	38	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per swine or cattle for Third Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_4>	9	9(05)	whole number	Number of swine or cattle the insured expects to market in the fourth month of the insurance period.
<EXP_GROSS_MARGIN_4>	39	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per swine or cattle for Fourth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_5>	10	9(05)	whole number	Number of swine or cattle the insured expects to market in the fifth month of the insurance period.
<EXP_GROSS_MARGIN_5>	40	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per swine or cattle for Fifth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_6>	11	9(05)	whole number	Number of swine or cattle the insured expects to market in the sixth month of the insurance period.
<EXP_GROSS_MARGIN_6>	41	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per swine or cattle for Sixth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_7>	12	9(05)	whole number	Number of cattle the insured expects to market in the seventh month of the insurance period. Not applicable for swine.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
<EXP_GROSS_MARGIN_7>	42	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per cattle for Seventh Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable. Not applicable for swine.
<TARGET_MARKET_8>	13	9(05)	whole number	Number of cattle the insured expects to market in the eighth month of the insurance period. Not applicable for swine.
<EXP_GROSS_MARGIN_8>	43	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per cattle for Eighth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable. Not applicable for swine.
<TARGET_MARKET_9>	14	9(05)	whole number	Number of cattle the insured expects to market in the ninth month of the insurance period. Not applicable for swine.
<EXP_GROSS_MARGIN_9>	44	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per cattle for Ninth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable. Not applicable for swine.
<TARGET_MARKET_10>	15	9(05)	whole number	Number of cattle the insured expects to market in the tenth month of the insurance period. Not applicable for swine.
<EXP_GROSS_MARGIN_10>	45	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per cattle for Tenth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable. Not applicable for swine.
<TARGET_MARKET_11>	16	9(05)	whole number	Number of cattle the insured expects to market in the eleventh month of the insurance period. Not applicable for swine.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
<EXP_GROSS_MARGIN_11>	46	(+ / -) 9(06).9999	per ADM	Expected Gross Margin per cattle for Eleventh Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable. Not applicable for swine.
EXPECTED GROSS MARGIN	Internal	9(10).99	dollars and cents	Sum of (Target Marketings by month times Expected Gross Margins by month).
<DEDUCTIBLE>	47	9999.99	whole dollars	Deductible submitted.
TOTAL TARGET MARKETINGS	Internal	9(05)	NA	Sum of Target Marketings by month.
<GROSS_MARGIN_GUAR>	48	(+ / -) 9(10).99	dollar and cents	Expected Gross Margin minus (Deductible times Total Target Marketings). Symbols apply and only the negative symbol (-) will appear if applicable.
AVG CME PRICE	Internal	999.99	NA	3-Day Avg CME Cwt Price from ADM L Suffix P.
<LIABILITY>	49	9(10)	nearest whole dollar	For Cattle, result of Avg CME Price times 12.5 (cwt) times Total Target Marketings rounded to the nearest whole dollar. For Swine, result of Avg CME Price times .74 (lean to live conversion factor) times 2.5 (market weight) times Total Target Marketings rounded to the nearest whole dollar.
SECOND MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Second Month Gross Margin Draw from ADM L Suffix C.
THIRD MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Third Month Gross Margin Draw from ADM L Suffix C.
FOURTH MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Fourth Month Gross Margin Draw from ADM L Suffix C.
FIFTH MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Fifth Month Gross Margin Draw from ADM L Suffix C.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
SIXTH MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Sixth Month Gross Margin Draw from ADM L Suffix C.
SEVENTH MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Seventh Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
EIGHTH MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Eighth Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
NINTH MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Ninth Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
TENTH MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Tenth Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
ELEVENTH MONTH GROSS MARGIN DRAW(i)	Internal	(+ / -) 9999.99	per ADM	Eleventh Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
SIMULATED GROSS MARGINS(i)	Internal	9(10).99	dollars and cents	Simulated Gross Margins(i) is the sum of (Gross Margin Draws(i) times Target Marketings by month).
<SIMULATED_LOSSES>	50	9(10).99	dollars and cents	Sum of (MAX (Gross Margin Guarantee minus Simulated Gross Margins(i)), 0).
<TOTAL_PREMIUM>	51	9(10)	nearest whole dollar	The result of 1.03 times (1/5,000) times Simulated Losses.
<PRODUCER_PREMIUM>	57	9(10)	nearest whole dollar	Producer Premium equals Total Premium.

Note: (i) = 1,2,..., 5000

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

**Livestock Gross Margin (LGM)
(Insurance Plan Code 82)
(Dairy)**

EXPECTED FEED COST

EXPECTED FEED COST 2 = (CORN_EQUIVALENT_2 * (2000/56) * (CORN PRICE 2 + CORN BASIS 2))
(Internal) (field 17) (Internal) (Internal)

+ (SOYM_EQUIVALENT_2 * SOYBEAN MEAL PRICE 2)
(field 27) (Internal)

EXPECTED FEED COST 3 = (CORN_EQUIVALENT_3 * (2000/56) * (CORN PRICE 3 + CORN BASIS 3))
(Internal) (field 18) (Internal) (Internal)

+ (SOYM_EQUIVALENT_3 * SOYBEAN MEAL PRICE 3)
(field 28) (Internal)

EXPECTED FEED COST 4 = (CORN_EQUIVALENT_4 * (2000/56) * (CORN PRICE 4 + CORN BASIS 4))
(Internal) (field 19) (Internal) (Internal)

+ (SOYM_EQUIVALENT_4 * SOYBEAN MEAL PRICE 4)
(field 29) (Internal)

EXPECTED FEED COST 5 = (CORN_EQUIVALENT_5 * (2000/56) * (CORN PRICE 5 + CORN BASIS 5))
(Internal) (field 20) (Internal) (Internal)

+ (SOYM_EQUIVALENT_5 * SOYBEAN MEAL PRICE 5)
(field 30) (Internal)

EXPECTED FEED COST 6 = (CORN_EQUIVALENT_6 * (2000/56) * (CORN PRICE 6 + CORN BASIS 6))
(Internal) (field 21) (Internal) (Internal)

+ (SOYM_EQUIVALENT_6 * SOYBEAN MEAL PRICE 6)
(field 31) (Internal)

EXPECTED FEED COST 7 = (CORN_EQUIVALENT_7 * (2000/56) * (CORN PRICE 7 + CORN BASIS 7))
(Internal) (field 22) (Internal) (Internal)

+ (SOYM_EQUIVALENT_7 * SOYBEAN MEAL PRICE 7)
(field 32) (Internal)

EXPECTED FEED COST 8 = (CORN_EQUIVALENT_8 * (2000/56) * (CORN PRICE 8 + CORN BASIS 8))
(Internal) (field 23) (Internal) (Internal)

+ (SOYM_EQUIVALENT_8 * SOYBEAN MEAL PRICE 8)
(field 33) (Internal)

**LIVESTOCK GROSS MARGIN (LGM)
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EXPECTED FEED COST 9 = (CORN_EQUIVALENT_9 * (2000/56) * (CORN PRICE 9 + CORN BASIS 9))
(Internal) (field 24) (Internal) (Internal)

+ (SOYM_EQUIVALENT_9 * SOYBEAN MEAL PRICE 9)
(field 34) (Internal)

EXPECTED FEED COST 10 = (CORN_EQUIVALENT_10 * (2000/56) * (CORN PRICE 10 + CORN
(Internal) (field 25) (Internal) (Internal)
BASIS 10)) + (SOYM_EQUIVALENT_10 * SOYBEAN MEAL PRICE 10)
(field 35) (Internal)

EXPECTED FEED COST 11 = (CORN_EQUIVALENT_11 * (2000/56) * (CORN PRICE 11 + CORN
(Internal) (field 26) (Internal) (Internal)
BASIS 11)) + (SOYM_EQUIVALENT_11 * SOYBEAN MEAL PRICE 11)
(field 36) (Internal)

GROSS MARGIN GUARANTEE

EXP_GROSS_MARGIN_2 = TARGET_MARKET_2 * (MILK PRICE 2 + MILK BASIS 2) -
(field 37) (field 7) (Internal) (Internal)

EXPECTED FEED COST 2
(Internal)

EXP_GROSS_MARGIN_3 = TARGET_MARKET_3 * (MILK PRICE 3 + MILK BASIS 3) -
(field 38) (field 8) (Internal) (Internal)

EXPECTED FEED COST 3
(Internal)

EXP_GROSS_MARGIN_4 = TARGET_MARKET_4 * (MILK PRICE 4 + MILK BASIS 4) -
(field 39) (field 9) (Internal) (Internal)

EXPECTED FEED COST 4
(Internal)

EXP_GROSS_MARGIN_5 = TARGET_MARKET_5 * (MILK PRICE 5 + MILK BASIS 5) -
(field 40) (field 10) (Internal) (Internal)

EXPECTED FEED COST 5
(Internal)

EXP_GROSS_MARGIN_6 = TARGET_MARKET_6 * (MILK PRICE 6 + MILK BASIS 6) -
(field 41) (field 11) (Internal) (Internal)

EXPECTED FEED COST 6
(Internal)

**LIVESTOCK GROSS MARGIN (LGM)
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$$\text{EXP_GROSS_MARGIN_7} = \text{TARGET_MARKET_7} * (\text{MILK PRICE 7} + \text{MILK BASIS 7}) -$$

(field 42) (field 12) (Internal) (Internal)

$$\text{EXPECTED FEED COST 7}$$

(Internal)

$$\text{EXP_GROSS_MARGIN_8} = \text{TARGET_MARKET_8} * (\text{MILK PRICE 8} + \text{MILK BASIS 8}) -$$

(field 43) (field 13) (Internal) (Internal)

$$\text{EXPECTED FEED COST 8}$$

(Internal)

$$\text{EXP_GROSS_MARGIN_9} = \text{TARGET_MARKET_9} * (\text{MILK PRICE 9} + \text{MILK BASIS 9}) -$$

(field 44) (field 14) (Internal) (Internal)

$$\text{EXPECTED FEED COST 9}$$

(Internal)

$$\text{EXP_GROSS_MARGIN_10} = \text{TARGET_MARKET_10} * (\text{MILK PRICE 10} + \text{MILK BASIS 10}) -$$

(field 45) (field 15) (Internal) (Internal)

$$\text{EXPECTED FEED COST 10}$$

(Internal)

$$\text{EXP_GROSS_MARGIN_11} = \text{TARGET_MARKET_11} * (\text{MILK PRICE 11} + \text{MILK BASIS 11}) -$$

(field 46) (field 16) (Internal) (Internal)

$$\text{EXPECTED FEED COST 11}$$

(Internal)

$$\text{EXPECTED GROSS MARGIN} = \sum (\text{EXP_GROSS_MARGIN 2 thru 11})$$

(Internal)

$$\text{GROSS_MARGIN_GUAR} = \text{EXPECTED GROSS MARGIN} - (\text{DEDUCTIBLE} *)$$

(field 48) (Internal) (field 47)

$$\text{TOTAL TARGET MARKETINGS}$$

(Internal)

LIABILITY

$$\text{LIABILITY} = \text{LIABILITY MILK PRICE} * \text{TOTAL TARGET MARKETINGS}$$

(field 49) (Internal) (Internal)

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

FEED COST DRAWS

FEED COST DRAW 2 = (CORN_EQUIVALENT_2 * (2000/56) * (CORN DRAW 2(i) + CORN BASIS 2))
(Internal) (field 17) (Internal) (Internal)

+ (SOYM_EQUIVALENT_2 * SOYBEAN MEAL DRAW 2(i))
(field 27) (Internal)

FEED COST DRAW 3 = (CORN_EQUIVALENT_3 * (2000/56) * (CORN DRAW 3(i) + CORN BASIS 3))
(Internal) (field 18) (Internal) (Internal)

+ (SOYM_EQUIVALENT_3 * SOYBEAN MEAL DRAW 3(i))
(field 28) (Internal)

FEED COST DRAW 4 = (CORN_EQUIVALENT_4 * (2000/56) * (CORN DRAW 4(i) + CORN BASIS 4))
(Internal) (field 19) (Internal) (Internal)

+ (SOYM_EQUIVALENT_4 * SOYBEAN MEAL DRAW 4(i))
(field 29) (Internal)

FEED COST DRAW 5 = (CORN_EQUIVALENT_5 * (2000/56) * (CORN DRAW 5(i) + CORN BASIS 5))
(Internal) (field 20) (Internal) (Internal)

+ (SOYM_EQUIVALENT_5 * SOYBEAN MEAL DRAW 5(i))
(field 30) (Internal)

FEED COST DRAW 6 = (CORN_EQUIVALENT_6 * (2000/56) * (CORN DRAW 6(i) + CORN BASIS 6))
(Internal) (field 21) (Internal) (Internal)

+ (SOYM_EQUIVALENT_6 * SOYBEAN MEAL DRAW 6(i))
(field 31) (Internal)

FEED COST DRAW 7 = (CORN_EQUIVALENT_7 * (2000/56) * (CORN DRAW 7(i) + CORN BASIS 7))
(Internal) (field 22) (Internal) (Internal)

+ (SOYM_EQUIVALENT_7 * SOYBEAN MEAL DRAW 7(i))
(field 32) (Internal)

FEED COST DRAW 8 = (CORN_EQUIVALENT_8 * (2000/56) * (CORN DRAW 8(i) + CORN BASIS 8))
(Internal) (field 23) (Internal) (Internal)

+ (SOYM_EQUIVALENT_8 * SOYBEAN MEAL DRAW 8(i))
(field 33) (Internal)

**LIVESTOCK GROSS MARGIN (LGM)
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FEED COST DRAW 9 = (CORN_EQUIVALENT_9 * (2000/56) * (CORN DRAW 9(i) + CORN BASIS 9))
(Internal) (field 24) (Internal) (Internal)

+ (SOYM_EQUIVALENT_9 * SOYBEAN MEAL DRAW 9(i))
(field 34) (Internal)

FEED COST DRAW 10 = (CORN_EQUIVALENT_10 * (2000/56) * (CORN DRAW 10(i) + CORN
(Internal) (field 25) (Internal) (Internal)

BASIS 10)) + (SOYM_EQUIVALENT_10 * SOYBEAN MEAL DRAW 10(i))
(field 35) (Internal)

FEED COST DRAW 11 = (CORN_EQUIVALENT_11 * (2000/56) * (CORN DRAW 11(i) + CORN
(Internal) (field 26) (Internal) (Internal)

BASIS 11)) + (SOYM_EQUIVALENT_11 * SOYBEAN MEAL DRAW 11(i))
(field 36) (Internal)

SIMULATED LOSSES

GROSS MARGIN DRAW 2(i) = TARGET_MARKET_2 * (MILK DRAW 2(i) + MILK BASIS 2)
(Internal) (field 7) (Internal) (Internal)

- FEED COST DRAW 2
(Internal)

GROSS MARGIN DRAW 3(i) = TARGET_MARKET_3 * (MILK DRAW 3(i) + MILK BASIS 3)
(Internal) (field 8) (Internal) (Internal)

- FEED COST DRAW 3
(Internal)

GROSS MARGIN DRAW 4(i) = TARGET_MARKET_4 * (MILK DRAW 4(i) + MILK BASIS 4)
(Internal) (field 9) (Internal) (Internal)

- FEED COST DRAW 4
(Internal)

GROSS MARGIN DRAW 5(i) = TARGET_MARKET_5 * (MILK DRAW 5(i) + MILK BASIS 5)
(Internal) (field 10) (Internal) (Internal)

- FEED COST DRAW 5
(Internal)

GROSS MARGIN DRAW 6(i) = TARGET_MARKET_6 * (MILK DRAW 6(i) + MILK BASIS 6)
(Internal) (field 11) (Internal) (Internal)

- FEED COST DRAW 6
(Internal)

**LIVESTOCK GROSS MARGIN (LGM)
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GROSS MARGIN DRAW 7(i) = TARGET_MARKET_7 * (MILK DRAW 7(i) + MILK BASIS 7)
(Internal) (field 12) (Internal) (Internal)

- FEED COST DRAW 7
(Internal)

GROSS MARGIN DRAW 8(i) = TARGET_MARKET_8 * (MILK DRAW 8(i) + MILK BASIS 8)
(Internal) (field 13) (Internal) (Internal)

- FEED COST DRAW 8
(Internal)

GROSS MARGIN DRAW 9(i) = TARGET_MARKET_9 * (MILK DRAW 9(i) + MILK BASIS 9)
(Internal) (field 14) (Internal) (Internal)

- FEED COST DRAW 9
(Internal)

GROSS MARGIN DRAW 10(i) = TARGET_MARKET_10 * (MILK DRAW 10(i) + MILK BASIS 10)
(Internal) (field 15) (Internal) (Internal)

- FEED COST DRAW 10
(Internal)

GROSS MARGIN DRAW 11(i) = TARGET_MARKET_11 * (MILK DRAW 11(i) + MILK BASIS 11)
(Internal) (field 16) (Internal) (Internal)

- FEED COST DRAW 11
(Internal)

SIMULATED GROSS MARGIN(i) = \sum (GROSS MARGIN DRAW 2 thru 11)
(Internal) (Internal)

SIMULATED_LOSSES(i) = \sum (MAX (GROSS_MARGIN_GUAR - SIMULATED GROSS MARGINS(i), 0))
(field 50) (field 48) (Internal)

Note: Negative simulated gross margins will be included.

TOTAL PREMIUM

TOTAL_PREMIUM = 1.03 * (1/5,000) * SIMULATED_LOSSES(i)
(field 51) (field 50)

PRODUCER PREMIUM

PRODUCER_PREMIUM = TOTAL_PREMIUM
(field 57) (field 51)

Note: Subsidy not applicable for LGM.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
CORN PRICE (2 thru 11)	Internal	999.99	per ADM	From ADM L Suffix B Ind E.
CORN BASIS (2 thru 11)	Internal	(+ / -) 99.99	per ADM	From ADM L Suffix S. Only the negative symbol (-) will appear if applicable.
SOYBEAN MEAL PRICE (2 thru 11)	Internal	999.99	per ADM	From ADM L Suffix B Ind E.
EXPECTED FEED COST (2 thru 11)	Internal	(+ / -) 9999.99	dollars and cents	Expected Feed Cost is the result of (corn equivalent times (2000/56) times (corn price plus corn basis)) plus (soybean meal equivalent times soybean meal price) by month.
<CORN_EQUIVALENT_2>	17	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the second month of the insurance period.
<SOYM_EQUIVALENT_2>	27	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the second month of the insurance period.
<CORN_EQUIVALENT_3>	18	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the third month of the insurance period.
<SOYM_EQUIVALENT_3>	28	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the third month of the insurance period.
<CORN_EQUIVALENT_4>	19	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the fourth month of the insurance period.
<SOYM_EQUIVALENT_4>	29	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the fourth month of the insurance period.
<CORN_EQUIVALENT_5>	20	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the fifth month of the insurance period.

**LIVESTOCK GROSS MARGIN (LGM)
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Edit Description

Tag	No.	Picture	Rounding	Description
<SOYM_EQUIVALENT_5>	30	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the fifth month of the insurance period.
<CORN_EQUIVALENT_6>	21	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the sixth month of the insurance period.
<SOYM_EQUIVALENT_6>	31	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the sixth month of the insurance period.
<CORN_EQUIVALENT_7>	22	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the seventh month of the insurance period.
<SOYM_EQUIVALENT_7>	32	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the seventh month of the insurance period.
<CORN_EQUIVALENT_8>	23	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the eighth month of the insurance period.
<SOYM_EQUIVALENT_8>	33	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the eighth month of the insurance period.
<CORN_EQUIVALENT_9>	24	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the ninth month of the insurance period.
<SOYM_EQUIVALENT_9>	34	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the ninth month of the insurance period.
<CORN_EQUIVALENT_10>	25	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the tenth month of the insurance period.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
<SOYM_EQUIVALENT_10>	35	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the tenth month of the insurance period.
<CORN_EQUIVALENT_11>	26	999.9(06)	NA	Corn or corn equivalent in tons that the insured expects to feed in the eleventh month of the insurance period.
<SOYM_EQUIVALENT_11>	36	999.9(06)	NA	Soybean Meal or soybean meal equivalent in tons that the insured expects to feed in the eleventh month of the insurance period.
MILK PRICE (2 thru 11)	Internal	999.99	per ADM	From ADM L Suffix B Ind E.
MILK BASIS (2 thru 11)	Internal	(+ / -) 99.99	per ADM	From ADM L Suffix S. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_2>	7	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the second month of the insurance period.
<EXP_GROSS_MARGIN_2>	37	(+ / -) 9(6).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the second month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_3>	8	9(05)	whole number	Hundredweight (CWT) of milk for dairy insured expects to market in the third month of the insurance period.
<EXP_GROSS_MARGIN_3>	38	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the third month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_4>	9	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the fourth month of the insurance period.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
<EXP_GROSS_MARGIN_4>	39	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the fourth month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_5>	10	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the fifth month of the insurance period.
<EXP_GROSS_MARGIN_5>	40	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the fifth month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_6>	11	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the sixth month of the insurance period.
<EXP_GROSS_MARGIN_6>	41	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the sixth month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_7>	12	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the seventh month of the insurance period.
<EXP_GROSS_MARGIN_7>	42	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the seventh month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_8>	13	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the eighth month of the insurance period.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
<EXP_GROSS_MARGIN_8>	43	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the eighth month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_9>	14	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the ninth month of the insurance period.
<EXP_GROSS_MARGIN_9>	44	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the ninth month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_10>	15	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the tenth month of the insurance period.
<EXP_GROSS_MARGIN_10>	45	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the tenth month. Only the negative symbol (-) will appear if applicable.
<TARGET_MARKET_11>	16	9(05)	whole number	Hundredweight (CWT) of milk for dairy the insured expects to market in the eleventh month of the insurance period.
<EXP_GROSS_MARGIN_11>	46	(+ / -) 9(06).9999	dollars and cents	Expected Gross Margin for dairy is the result of target marketings times (milk price plus milk basis) minus expected feed cost for the eleventh month. Only the negative symbol (-) will appear if applicable.
EXPECTED GROSS MARGIN	Internal	9(10).99	dollars and cents	Sum of Expected Gross Margins 2 thru 11.
<DEDUCTIBLE>	47	9999.99	dollar and cents	Deductible submitted.
TOTAL TARGET MARKETINGS	Internal	9(05)	NA	Sum of Target Marketings by month.

**LIVESTOCK GROSS MARGIN (LGM)
LIABILITY/PREMIUM CALCULATIONS**
Edit Description

Tag	No.	Picture	Rounding	Description
<GROSS_MARGIN_GUAR>	48	(+ / -) 9(10).99	dollar and cents	Expected Gross Margin minus (Deductible times Total Target Marketings). Symbols apply and only the negative symbol (-) will appear if applicable.
LIABILITY MILK PRICE	Internal	999.99	NA	Liability Milk Price from ADM L Suffix B Ind E.
<LIABILITY>	49	9(10)	nearest whole dollar	For Dairy, result of Liability Milk Price times Total Target Marketings rounded to the nearest whole dollar.
CORN DRAW(i) (2 thru 11)	Internal	999.99	per ADM	From ADM L Suffix A.
SOYBEAN MEAL DRAW(i) (2 thru 11)	Internal	999.99	per ADM	From ADM L Suffix A.
FEED COST DRAW (2 thru 11)	Internal	(+ / -) 9999.99	dollars and cents	Feed Cost Draw is the result of (corn equivalent times (2000/56) times (corn draw(i) plus corn basis)) plus (soybean meal equivalent times soybean meal draw(i)) by month.
MILK DRAW(i) (2 thru 11)	Internal	999.99	per ADM	From ADM L Suffix A.
GROSS MARGIN DRAW(i) (2 thru 11)	Internal	(+ / -) 9999.99	dollars and cents	Gross Margin Draw for dairy is the result of target marketings times (milk draw plus milk basis) minus feed cost draw by month. Only the negative symbol (-) will appear if applicable.
SIMULATED GROSS MARGINS(i)	Internal	9(10).99	dollars and cents	Sum of Gross Margin Draws(i) 2 thru 11.
<SIMULATED_LOSSES>	50	9(10).99	dollars and cents	Sum of (MAX (Gross Margin Guarantee minus Simulated Gross Margins(i)), 0).
<TOTAL_PREMIUM>	51	9(10)	nearest whole dollar	The result of 1.03 times (1/5,000) times Simulated Losses.
<PRODUCER_PREMIUM>	57	9(10)	nearest whole dollar	Producer Premium equals Total Premium.

Note: (i) = 1,2,..., 5000

**Number of tons of corn per month must be between 0.00364 and 0.02912 tons per hundredweight of milk.
Number of tons of soybean meal per month must be between 0.000805 and 0.006425 tons per hundredweight of milk.**